Index of Claims

| App | lication | /Contro | ol No. |
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10/791,936

Examiner

John S. Maples

Applicant(s)/Patent under Reexamination

UGAWA ET AL.

Art Unit

1745

| √ | Rejected |
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| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | N | Non-Elected  |
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| ī | ı | Interference |

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| Cla          | aim      | Date         |                 |          |           |          | - "            | Cla      | im              | Date |             |       |            |               |               | - [          | Cla              | aim      | Date             |          |        |       |          |             |         |        |          |          |                     |           |          |
|--------------|----------|--------------|-----------------|----------|-----------|----------|----------------|----------|-----------------|------|-------------|-------|------------|---------------|---------------|--------------|------------------|----------|------------------|----------|--------|-------|----------|-------------|---------|--------|----------|----------|---------------------|-----------|----------|
|              |          |              |                 |          |           |          |                |          |                 |      |             |       |            | $\neg \Gamma$ | $\neg \vdash$ |              | П                |          | ПТ               | П        | _ [    |       |          |             | Т       | Т      | T        |          | П                   | Т         |          |
| ज            | Original | 1/19/06      |                 |          |           |          |                |          | ll              |      |             | a     | Original   |               |               |              |                  |          |                  | - [      |        | a     | Original | ł           |         |        |          |          | ıl                  |           |          |
| Final        | ij       | 16           |                 |          |           |          |                |          |                 |      | ,           | Final | . <u>P</u> |               |               |              |                  |          | 1 1              | - 1      | 1      | Final | nig      | ŀ           |         |        |          |          | ıl                  |           |          |
| -            | Ō        | -            |                 |          |           |          |                |          |                 |      |             | _     | 0          |               |               |              |                  |          |                  |          | •      | _     | 0        |             |         | -      |          |          | ı l                 |           |          |
| 1            | 1        | =            | $\vdash$        | $\dashv$ | _         | -        | H              | Н        | $\vdash$        | _    |             |       | 51         | -             | ╅             | -            | -                |          | ++               | $\dashv$ | 1.4    |       | 101      | -+          | +       | +-     | +-       | -        | $\vdash$            | $\dashv$  |          |
| 2            | 2        | =            |                 | -        |           |          | -              | -        | -               |      |             |       | 52         | +             | +             | -            | -                |          | 1 1              | -        |        |       | 102      | $\dashv$    | -       | +      | ╫        | $\vdash$ | $\overline{}$       | $\dashv$  | <u> </u> |
|              | -        | —            | $\vdash \vdash$ | $\dashv$ | -         | $\vdash$ | $\vdash$       |          | $\vdash$        |      |             |       | 53         | -             |               | ┼            |                  |          | ╂─┼              | $\dashv$ |        |       | 102      | -           |         |        | ┿        | $\vdash$ | $\vdash$            | $\dashv$  |          |
| 3            | 3        | =            | $\square$       | $\dashv$ | _         | _        | H              | H        | $\vdash \vdash$ |      |             |       |            |               | -             | $\vdash$     | $\vdash$         |          | $\vdash$         | $\dashv$ |        |       | 103      | +           | +       | +      | +        | $\vdash$ | -                   | +         | _        |
|              | 4        |              | Ш               | $\dashv$ |           | _        | Щ              |          | Ш               |      |             |       | 54         | -             |               | ┼            | $\vdash$         |          | -                | 4        | ં      |       | 104      | $\dashv$    |         | -      | ┿        | $\sqcup$ | $\vdash$            | 4         |          |
|              | 5        | _            | $\square$       | _        | _         | _        |                |          | $\sqcup$        |      |             |       | 55         | $\perp$       | $\bot$        | $\vdash$     | $\sqcup$         | _        | $\sqcup$         | 4        | : 1    |       | 105      | $\perp$     | $\perp$ | _      | ₩        | Ш        | $\dashv$            | -         |          |
|              | 6        | _            | Ш               | _        |           | L        |                |          |                 |      | - 1         |       | 56         | $\perp$       | $\bot$        | $\vdash$     | $\sqcup$         | _        | 1                | _        |        |       | 106      | $\perp$     |         |        | ↓_       | Ш        | $\dashv$            | _         |          |
| ļ            | 7        | L            | Ш               |          |           |          |                |          | Щ               |      |             |       | 57         |               | _ _           | <u> </u>     | $\sqcup$         |          | Ш                | ᆚ        |        |       | 107      |             |         |        | <b>⊥</b> |          | $\dashv$            | _         |          |
|              | 8        | L            |                 |          |           |          |                |          | Ш               |      |             |       | 58         |               |               | <u> </u>     | $\Box$           |          | Ш                | _[       |        |       | 108      | ·           |         |        |          |          |                     |           |          |
|              | 9        |              |                 |          |           |          |                |          |                 |      |             |       | 59         |               |               |              |                  |          |                  |          |        |       | 109      |             |         |        |          |          |                     |           |          |
|              | 10       |              |                 |          |           |          |                |          |                 |      |             |       | 60         |               |               |              |                  |          |                  |          | . [    |       | 110      |             |         |        |          |          |                     |           |          |
|              | 11       |              |                 |          |           |          |                |          |                 |      |             |       | 61         |               |               |              |                  |          |                  |          | ٠.     |       | 111      | T           |         |        |          | П        | $\Box$              | T         |          |
|              | 12       |              |                 |          |           |          |                |          |                 |      | , i         |       | 62         |               | T             |              |                  | T        | $\Box$           |          | . 7. 1 |       | 112      |             |         | T      | Т        | П        | 一                   | 寸         |          |
|              | 13       |              | П               | 乛        |           |          |                |          | П               |      | 1.7         |       | 63         |               |               |              | $\Box$           | i        | $\sqcap$         | 一        |        |       | 113      |             | _       | 1      | T        |          | 寸                   | $\exists$ | $\neg$   |
|              | 14       | Т            | $\Box$          | $\dashv$ | $\neg$    | $\vdash$ | П              | П        | $\Box$          | _    |             |       | 64         | $\neg$        | $\top$        | T            | $\vdash$         | $\top$   | $\vdash$         | $\dashv$ |        |       | 114      |             | $\top$  | $\top$ | $\top$   | П        | コ                   | $\dashv$  | $\dashv$ |
|              | 15       | t            |                 |          |           | $\vdash$ |                |          |                 |      |             |       | 65         |               | $\top$        |              | $\vdash$         | 1        | $\vdash$         | ヿ        | - 17   |       | 115      | $\vdash$    | +       | +      | +-       | $\vdash$ |                     | 十         | $\neg$   |
|              | 16       |              | $\vdash$        | $\dashv$ | _         | $\vdash$ | Н              | Н        | H               | _    | s           |       | 66         | $\dashv$      | - -           |              | $\vdash$         |          | +                | $\dashv$ | g-i    |       | 116      | +           | +       | +      | +-       | $\vdash$ | $\dashv$            | $\dashv$  | $\dashv$ |
| <del> </del> | 17       | $\vdash$     | $\vdash \vdash$ | -        | -         | $\vdash$ | $\vdash$       | $\vdash$ | $\vdash \vdash$ | _    |             |       | 67         | +             | +-            | +            | $\vdash$         | +        | +                | $\dashv$ | Ĩ.,    |       | 117      | $\vdash$    | +       | +      | +        | $\vdash$ | $\dashv$            | $\dashv$  | $\dashv$ |
| <del> </del> | 18       | -            | $\vdash$        | $\dashv$ | -         | $\vdash$ | $\vdash$       | $\vdash$ | $\vdash$        | _    | 43          |       | 68         |               |               | 1            | $\vdash$         |          | +                | $\dashv$ | × =    |       | 118      |             | +       | +-     | +        | $\vdash$ | $\dashv$            | $\dashv$  | $\dashv$ |
| $\vdash$     | 19       |              | $\vdash$        | -        | -         | $\vdash$ | $\vdash$       | $\vdash$ | $\vdash$        | _    |             |       | 69         | +             | +             | $\vdash$     | $\vdash$         |          | ┼-┼              | $\dashv$ | 100    |       |          | -           | +       | +      | +        | $\vdash$ | $\dashv$            | -+        |          |
| <u> </u>     |          |              | ┝╌┥             |          |           | -        | $\vdash\vdash$ | ⊢        | $\vdash\vdash$  |      |             |       |            |               |               | $\vdash$     | $\vdash$         | +-       | $\vdash$         | -        | 7.     |       | 119      | -           | +       |        | +        | $\vdash$ | -                   | -+        |          |
|              | 20       | H            | $\vdash \vdash$ | _        | _         | <u> </u> | $\vdash$       | <u> </u> | $\vdash \vdash$ |      |             |       | 70         | +             | +-            |              | $\vdash$         | +        | ┼┼               | -        |        |       | 120      | -           |         | +      | ┼        | $\vdash$ |                     |           |          |
| <u> </u>     | 21       | $\vdash$     | Щ               | _        | _         | <u> </u> |                | <u> </u> | $\sqcup$        |      | - 1         |       | 71         | -             | - -           | -            | <del>     </del> | - -      | <b>├</b>         | _        |        |       | 121      | $\vdash$    | $\perp$ | 4      | +-       | $\sqcup$ | $\dashv$            | _         |          |
|              | 22       |              | Щ               |          |           |          | Ш              | 1        | Щ               |      | 114.<br>100 |       | 72         | $\perp$       | -             | <b> </b>     | $\sqcup$         |          | $\sqcup$         | _        |        |       | 122      | $\vdash$    | _       | 4      | 4-       | Ш        |                     | 4         |          |
|              | 23       | Ė            | $\sqcup$        | _        |           |          | Ш              |          |                 |      |             |       | 73         |               |               | _            | $\perp$          |          | $\sqcup$         | _        |        |       | 123      |             |         |        | ↓_       | Ш        | $\dashv$            | _         | _        |
|              | 24       |              |                 |          |           |          |                |          |                 |      |             |       | 74         | $\perp$       |               | $oxed{oxed}$ |                  | _ _      | 1                |          |        |       | 124      |             |         | 4_     | ┷        | Ш        | $oldsymbol{\sqcup}$ | _         |          |
|              | 25       |              |                 |          |           |          |                |          | Ш               |      |             |       | 75         |               |               |              | Ш                |          |                  | ┙        |        |       | 125      |             |         |        |          | Ш        |                     |           |          |
|              | 26       |              |                 |          |           |          |                |          |                 |      | ,.          |       | 76         |               |               |              |                  |          |                  |          |        |       | 126      |             |         |        | 丄        | Ш        | $\Box$              | ┙         |          |
|              | 27       |              |                 |          |           |          |                |          |                 |      |             |       | 77         |               |               |              |                  |          |                  |          |        |       | 127      |             |         |        |          |          |                     | $\Box$    |          |
|              | 28       |              |                 |          |           |          |                |          |                 |      | -1          |       | 78         |               |               |              | П                |          | $\Gamma$         |          |        |       | 128      |             | $\top$  | $\top$ | T        |          | П                   | $\exists$ |          |
|              | 29       |              |                 |          |           |          |                |          |                 |      |             |       | 79         |               | Т             |              |                  |          | П                | $\neg$   | -      |       | 129      |             |         | Т      | $\top$   |          | $\Box$              | $\neg$    |          |
|              | 30       |              |                 |          |           |          |                |          |                 |      |             |       | 80         | Т             |               |              |                  |          | П                |          |        |       | 130      |             | T       | T      | T        | П        | П                   | ╗         |          |
|              | 31       |              |                 |          |           |          |                |          |                 |      |             |       | 81         |               |               | _            | T                |          | $\Box$           | ╗        |        |       | 131      |             |         | $\top$ | $\top$   | П        | $\Box$              | ヿ         |          |
|              | 32       | П            | $\Box$          |          |           |          | П              |          | Н               |      | 1           |       | 82         | $\neg$        | _             |              | $\vdash$         |          | 1                | $\dashv$ |        |       | 132      | _           | +       | 1      | +        | $\Box$   | $\dashv$            | 一         |          |
|              | 33       | П            | $\vdash$        |          | $\neg$    | $\vdash$ | П              | т        | $\vdash$        | _    |             |       | 83         | _             | _             |              |                  |          | <del>   </del>   | $\dashv$ |        |       | 133      | -           | +       | $\top$ | +        | Н        | $\dashv$            | 一         |          |
|              | 34       | $\vdash$     | $\vdash$        | $\neg$   | $\neg$    | $\vdash$ | $\vdash$       | $\vdash$ |                 |      | ₹.          |       | 84         | +             |               | 1            | $\vdash$         | $\dashv$ | +-+              | -        |        |       | 134      | $\vdash$    | +       | +      | +        | Н        | $\dashv$            | $\dashv$  | $\dashv$ |
|              | 35       |              | H               | _        | $\dashv$  |          | H              | Н        | $\vdash$        |      |             |       | 85         | +             | +             | $\vdash$     | $\vdash$         | +        | ┼┈┼              | $\dashv$ |        |       | 135      |             | +       | +      | +-       | $\vdash$ | -+                  | $\dashv$  | $\dashv$ |
|              | 36       |              | $\vdash$        | -        | $\dashv$  | -        | $\vdash$       | $\vdash$ | $\vdash \vdash$ | -    |             |       | 86         | +             |               | +-           | $\vdash$         |          | +                | $\dashv$ | 4      |       | 136      |             | +       | +      | +-       | $\vdash$ | $\dashv$            | $\dashv$  |          |
| <del></del>  | 37       |              | $\vdash$        | -        |           | _        | $\vdash$       | _        | -               | _    |             |       | 87         |               |               | +-           | $\vdash$         | +        | ┼-┼              |          |        |       | 137      | +           | +       | +      | +        | Н        | $\dashv$            | $\dashv$  | $\dashv$ |
| <u> </u>     |          | -            | $\vdash$        |          | _         | <u> </u> | $\vdash$       | $\vdash$ | $\vdash \vdash$ | _    |             |       |            | -             |               | $\vdash$     | $\vdash$         |          | ┼┼               | $\dashv$ |        |       |          | -           | +       | +-     | +-       | $\vdash$ | $\dashv$            | $\dashv$  |          |
|              | 38       | H            | $\vdash \vdash$ | _        |           |          | Н              | $\vdash$ | $\vdash \vdash$ |      |             |       | 88         |               | -             | $\vdash$     |                  |          | $\vdash$         | 4        |        |       | 138      | $\vdash$    |         | 4      | +-       | $\vdash$ |                     | 4         | 괵        |
|              | 39       | H            | $\vdash \vdash$ | _        |           | <u> </u> |                | $\vdash$ | $\square$       |      |             |       | 89         | -             | -             | $\vdash$     | $\vdash \vdash$  | +        | 1-1              | _        |        |       | 139      | -           | -       | 4      | 4        | $\sqcup$ |                     | _         | $\dashv$ |
| <u> </u>     | 40       | <u> </u>     | $\sqcup$        |          | _         | L        | Щ              | Ш        | Щ               |      |             |       | 90         |               | _             | $\vdash$     | $\sqcup$         |          | <del>     </del> | _        | . [    |       | 140      | $\vdash$    | _       | +      | 4        | Ш        | ႕                   | 4         |          |
|              | 41       | $\vdash$     | Ш               |          |           | L        | Щ              | L        | Ш               |      |             |       | 91         | $\perp$       | $\bot$        |              | $\sqcup$         |          | 1-1              | _        |        |       | 141      |             | $\perp$ | _      | 1        | $\sqcup$ | $\perp$             | _         |          |
| <u> </u>     | 42       |              |                 |          |           | _        |                |          | Ш               |      |             |       | 92         | _             | _ _           | L            | $\sqcup$         | _ _      | $\sqcup$         | $\Box$   | ļ      |       | 142      |             | $\bot$  | _      |          | Ш        | $\perp$             |           |          |
|              | 43       | $oxed{\Box}$ | $\Box$          |          |           | L        | $oxed{oxed}$   |          |                 |      |             |       | 93         |               |               |              |                  |          |                  |          |        |       | 143      |             |         |        | $\perp$  |          |                     | $\Box$    |          |
|              | 44       |              |                 |          |           | L        |                |          |                 |      |             |       | 94         | $\Box$        |               |              |                  |          |                  |          | ĺ      |       | 144      |             |         |        |          |          |                     | ▔         |          |
|              | 45       |              |                 |          |           |          |                |          |                 |      |             |       | 95         |               | T             |              |                  | T        |                  |          | ı      |       | 145      |             | $\top$  | T      | Т        | П        | $\sqcap$            | $\neg$    |          |
|              | 46       |              |                 |          |           |          |                |          | $\Box$          |      |             |       | 96         | $\neg$        | $\top$        | $\Box$       | $\Box$           | $\top$   | $\sqcap$         | $\neg$   |        |       | 146      | $\neg$      | 十       | T      | $\top$   | П        | $\dashv$            | ヿ         |          |
|              | 47       | $\vdash$     | $\neg$          | $\neg$   | $\exists$ |          | П              | _        |                 | _    |             |       | 97         | $\top$        | 1             |              | $\vdash$         | $\top$   | $\sqcap$         | ヿ        | ı      |       | 147      | $\vdash$    | 十       | 十      | +        | $\Box$   | $\dashv$            | $\dashv$  | $\dashv$ |
|              | 48       | $\vdash$     | $\vdash$        |          |           |          | Н              |          | $\vdash$        |      |             |       | 98         | +             | +             | 1            | $\vdash$         | $\dashv$ | ++               | 一.       | . ]    |       | 148      | $\vdash$    | ╅       | +      | +        | Н        | $\dashv$            | $\dashv$  | $\dashv$ |
| $\vdash$     | 49       |              | $\vdash$        |          |           |          | Н              |          | $\vdash$        | _    |             |       | 99         | $\dashv$      |               | $\vdash$     |                  |          |                  | $\dashv$ | ]      |       | 149      | <del></del> | +       | +      | +        | Н        | $\dashv$            | $\dashv$  | $\dashv$ |
| <b> </b>     | 50       | -            | $\vdash$        | -        |           |          | $\vdash$       |          | $\vdash$        | _    |             |       | 100        |               | +             | $\vdash$     |                  |          | +-+              | ┥        | .      |       | 150      | $\dashv$    | +       | +-     | +-       | $\vdash$ |                     | $\dashv$  | $\dashv$ |
|              |          | Ь            | L               | 1        |           | Ц        | <u> </u>       | L        | ш               |      |             |       | 100        |               |               | L            | ╙┸               |          | $\perp \perp$    |          | - 1    |       | 130      |             | L_      |        |          |          | ш                   |           |          |